THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	Castillo et al.	Examiner:	Chernyshev, O.
Serial No.:	09/938,275	Group Art Unit:	1646
Filing Date:	08/22/2001	Attorney Docket No.:	PROTEO.P03

Title of Invention: Therapeutic Applications of Laminin and Laminin-Derived Protein Fragments

Seattle, Washington 98109
January 22, 2003

TO THE COMMISSIONER FOR PATENTS
Washington, D.C. 20231

RESPONSE TO NOTICE TO COMPLY

Applicant acknowledges receipt of a Notice to Comply dated 12/23/2002. A copy of the Notice to Comply form is enclosed herewith as required. Applicant responds to the Examiner's concerns as follows:

The sequence found in Figure 10 of the application is a known sequence (mouse laminin A chain) and therefore it is believed that a new Sequence ID listing is not required. Enclosed is a substitute Figure 10 with the amendment of "Sequence ID No. 12", the new Sequence ID added, as suggested by the Examiner.

Please also amend Page 14, beginning at line 20 of the Specification, Brief Description of the Drawings (see substitute page attached), by inserting -(Seq. ID 12)- immediately after the words "FIGURE 10".

Applicant believes it has responded fully to all of the Examiner's concerns. If the Examiner has any further concerns, Applicant urges him to call Applicant's attorney Patrick Dwyer at (206) 343-7074.

Respectfully submitted,

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P03-COMPLY.RSP

Alzheimer's disease amyloidosis.

FIGURE 7 is a black and white photograph of laminin digested with V8 protease, separated by SDS-PAGE and following interaction with biotinylated Aß (1-40). The smallest fragment of V8-resistent laminin that interacts with Aß is a ~55 kilodalton fragment.

FIGURE 8 is a black and white photograph of laminin digested with trypsin, separated by SDS-PAGE and following interaction with biotinylated Aß (1-40). The smallest fragment of trypsin-resistent laminin that interacts with Aß is a ~30 kilodalton fragment.

FIGURE 9 is a black and white photograph of laminin digested with elastase, separated by SDS-PAGE and following interaction with biotinylated Aß (1-40). A ~55 kilodalton laminin fragment (arrow) that binds biotinylated Aß was identified and sequenced. Note also the presence of a ~130 kDa fragment (arrowheads) that binds Aß following 1.5 hours of elastase digestion (lane 2). Panel A is a ligand blot using biotinylated Aß as a probe, whereas panel B is Coomassie blue staining of the same blot in Panel A to locate the specific band(s) for sequencing.

SEQ ID NO: 12

OC 04/08/03

FIGURE 10 (~~Seq. ID 12~~) shows the complete amino acid sequence of the mouse laminin A chain. Sequencing of the ~55 kilodalton Aß-binding band shown in Figure 9 leads to the identification of an 11 amino acid segment (underline and arrowhead) within the laminin A chain. This Aß binding region of laminin is situated within the globular domain repeats of the laminin Achain.

FIGURE 11 shows schematic diagrams of laminin and the newly discovered "Aß

Notice to Comply	Application No.	Applicant(s)	
	09/938,275	CASTILLO ET AL.	
	Examiner	Art Unit	
	Olga N. Chernyshev	1646	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).

☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).

☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).

☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).

☒ 7. Other: unidentified sequence in Figure 10

Applicant Must Provide:

☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
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